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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO		
09/501,251	02/10/2000	Josef Theurer	THEURER-21 3590			
20151	7590 09/04/2002					
HENRY M FEIEREISEN 350 FIFTH AVENUE SUITE 3220 NEW YORK, NY 10118			EXAMINER			
			WEST, JEFFREY R			
NEW YORK,	NY 10118		ART UNIT	PAPER NUMBER		
			2857			
			DATE MAILED: 09/04/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

				ak
	Application No.		Applicant(s)	.,
	09/501,251		THEURER ET AL	
' Office Action Summary	Examiner		Art Unit	
	Jeffrey R. West		2857	
The MAILING DATE of this communication app		eet with the	correspondence ac	ldress
riod for Reply			(A) == 0.1	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirly (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). **Tune This is a second seco	36(a). In no event, however, within the statutory minimur ill apply and will expire SIX cause the application to bec	may a reply be tilm of thirty (30) day (6) MONTHS from come ABANDONE	mely filed ys will be considered time the mailing date of this c ED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on <u>16 J</u>	uly 2002 .			
a)⊠ This action is FINAL . 2b)⊡ Thi	s action is non-final			
3) Since this application is in condition for allowa closed in accordance with the practice under to position of Claims				ne merits is
4) Claim(s) 1 is/are pending in the application.				
4a) Of the above claim(s) is/are withdraw	vn from consideratio	on.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or	election requiremen	nt.		
olication Papers				
9) The specification is objected to by the Examiner				
0)⊠ The drawing(s) filed on 10 February 2000 is/are:				
Applicant may not request that any objection to the				
1) The proposed drawing correction filed on			oved by the Examin	er.
If approved, corrected drawings are required in rep	•			
2) The oath or declaration is objected to by the Exa	aminer.			
ority under 35 U.S.C. §§ 119 and 120				
3) Acknowledgment is made of a claim for foreign	priority under 35 U.	.S.C. § 119(a	a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			,	
1. Certified copies of the priority documents				
2. Certified copies of the priority documents				_
3. Copies of the certified copies of the priorapplication from the International Bur* See the attached detailed Office action for a list of	eau (PCT Rule 17.2	2(a)).		Stage
t) ☐ Acknowledgment is made of a claim for domestic	priority under 35 U	.S.C. § 119(e) (to a provisiona	application).
a) ☐ The translation of the foreign language prov 5)☐ Acknowledgment is made of a claim for domestic				
chment(s)				
Notice of References Cited (RTO-802)	A) 🗍 Inte	anvious Summan	(DTO:413) Paper No	(c)

S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office Action Summary Part of Paper N	o. 9
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:	
Attachment(s)	
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	
a) The translation of the foreign language provisional application has been received.	dony.
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application)	tion)
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	
3. Copies of the certified copies of the priority documents have been received in this National Stage	
Certified copies of the priority documents have been received in Application No	
1.⊠ Certified copies of the priority documents have been received.	
a) ⊠ All b) □ Some * c) □ None of:	
13) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	
Priority under 35 U.S.C. §§ 119 and 120	
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.	
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
10)⊠ The drawing(s) filed on <u>10 February 2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.	
9) The specification is objected to by the Examiner.	
Application Papers	
8) Claim(s) are subject to restriction and/or election requirement.	
7) Claim(s) is/are objected to.	
6)⊠ Claim(s) <u>1</u> is/are rejected.	
5) Claim(s) is/are allowed.	
4a) Of the above claim(s) is/are withdrawn from consideration.	
4)⊠ Claim(s) <u>1</u> is/are pending in the application.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims) is
2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.	_
1) Responsive to communication(s) filed on 16 July 2002.	
earned patent term adjustment. See 37 CFR 1.704(b). Status	
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133) Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any	

Period for Reply

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,493,499 to Theurer et al.

Theurer discloses a method of surveying a track (column 5, lines 62-66) comprising the steps of positioning a first and second measuring vehicle, the first measuring vehicle designed for mobility independent of the second stationary vehicle (column 4, lines 40-43), at end points of a track section to be measured (column 4, lines 15-18), determining the position coordinates of the second vehicle at the start of each measuring cycle with the aid of a GPS receiver, mounted on the stationary, second measuring vehicle (column 4, lines 7-9 and Figure 1), relative to a fixed reference known within a terrestrial coordinate system (column 4, lines 24-34), wherein the fixed reference may either be a track reference point (column 4, line 23) or a fixedly installed GPS reference station (column 8, lines 1-4), and setting up a reference line in the form of an optical measuring beam between an emitter mounted on the second measuring vehicle and a receiving unit mounted on the first measuring vehicle (column 7, lines 23-31).

Theurer also describes the steps of aligning the reference line with the first measuring vehicle on the basis of the determined position data (column 5, line 66 to column 6, line 9), advancing the first measuring vehicle along the line in the direction towards the second, stationary vehicle, by a predetermined distance and determining a displacement of the optical reference line perpendicular to a track direction, determining an absolute track location, as well as registering as a correction measurement value any change in position of the receiving unit mounted on the first measuring vehicle relative to the reference line (column 6, lines 30-34 and 50-56). Theurer also describes the process of repeating the movement and measurement steps until the first measuring vehicle is in close proximity to the second measuring vehicle, thereby surveying the track between the two end points (column 2, lines 1-8).

Theurer does not specify, however, placing the stationary calibrated satellite receivers (i.e. fixedly installed GPS reference stations) adjacent to the track section to be measured.

It would have been obvious to one having ordinary skill in the art to modify the invention of Theurer to include specifying that the stationary calibrated satellite receivers be adjacent to the track section to be measured, because the combination would have placed the stationary satellite receivers close to the mobile devices being tracked, allowing the mobile devices to be in the signal range of the stationary satellite receivers for a longer time, and therefore providing accurate tracking over a greater distance.

Further, although Theurer doesn't specifically describe determining the position coordinates of the emitter mounted on the stationary, second measuring vehicle, this limitation is not considered critical to the implementation of the invention since Theurer does describe the functionally equivalent method for determining the initial starting position coordinates of the second measuring vehicle using GPS data.

Response to Amendment

3. Applicant's arguments filed July 16, 2002, have been fully considered but they are not persuasive.

The applicant argues that "The amended claim 1 now recites that the method for surveying a track establishes the position of the laser emitter only at the beginning of each measurement cycle with the help of a GPS receiver mounted on the second, stationary measuring vehicle. The remaining process steps then use only a laser reference line and are completely independent of additional GPS measurements. Theurer ('499), on the other hand, discloses a track surveying system that relies entirely on GPS position data, without establishing a position reference from an optical reference line."

The examiner stands behind the previous rejection for the following reasons:

First, the amendment to claim 1 provided the new feature of "aligning the reference line with the first measuring vehicle on the basis of the position data determined with the aid of the GPS receiver mounted on the stationary, second measuring vehicle". The instant invention, as claimed, does not specify that the

process be implemented using the established reference line and be completely independent of additional GPS measurements. This argument is therefore not persuasive because the feature is not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Second, with respect to the applicants argument that Theurer ('499) doesn't establish a position reference from an optical reference line, the Theurer ('499) reference discloses setting up a reference line in the form of an optical measuring beam between an emitter mounted on the second measuring vehicle and a receiving unit mounted on the first measuring vehicle (column 7, lines 23-31) and aligning the reference line with the first measuring vehicle on the basis of the determined position data (column 5, line 66 to column 6, line 9), wherein the position data of the second vehicle is determined at the start of each measuring cycle with the aid of a GPS receiver relative to a fixed reference, either a track reference point (column 4, line 23) or a fixedly installed GPS reference station (column 8, lines 1-4), known within a terrestrial coordinate system (column 4, lines 24-34). Theurer ('499) also discloses that the GPS antenna and receiver be mounted on the stationary, second measuring vehicle (column 4, lines 7-9 and Figure 1). This description meets the claimed limitation, "aligning the reference line with the first measuring vehicle on the basis of the position data determined with the aid of the GPS receiver mounted on the stationary, second measuring vehicle."

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey R. West whose telephone number is (703)308-1309. The examiner can normally be reached on Monday thru Friday, 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (703)308-1677. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7382 for regular communications and (703)308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

jrw August 27, 2002

> MARC S. HÖFF Supervisory Patent Examiner Technology Center 2800